

District TSM&O Workshops: District 1 Strategies Summary

TSM&O Focus Area: Operations

Planning	PD&E/Design
<ul style="list-style-type: none"> • Evaluate accommodation of operations and ITS projects with other projects in work program to avoid preclusions • Conduct regular planning for TSM (Transportation Systems Management – similar to TSM&O) • Network planning includes operations consideration • Will be using TOC data to inform next update of travel demand model • Safety issues have triggered roadway reconfigurations (passing lanes on 2-lane road) 	<ul style="list-style-type: none"> • Adhere to Federal requirement to look at TSM&O options (e.g. one way pairs) • For projects with greater complexity, coordination takes place with traffic operations group • Coordinate with locals or public information office for special event scheduling
Traffic Operations	Construction
<ul style="list-style-type: none"> • Traveler Info Systems: deployed along I-75, managed through Fort Myers; plan in place to fully cover I-75 across whole district <ul style="list-style-type: none"> ○ Includes DMS, CCTV, detectors, some road weather info systems • Sharing of CCTV with law enforcement via internet being rolled out • Perform public outreach (e.g. email blasts to stakeholders on road closures) • Work with design/PD&E on project scopes for incorporation of ITS • Collect speed and volume data and send to data warehouse (CDW); not currently shared internally with district or beyond but could be capitalized on • District's own data collection could be coordinated with CDW • Lack of resources for arterial system traffic signal operations 	<ul style="list-style-type: none"> • Generate notifications of closures for display on DMS • Coordinate with maintenance on on-call system
Maintenance	
<ul style="list-style-type: none"> • Receive some feedback from traveler info systems (e.g. smoke, fog incident closures) • Contribute to "Road Watch," a one-week look-ahead press release on maintenance activities issued through public info office • Asset maintenance contractors notify TMC of incidents • Responsible for evacuation plans • Special events: send road closure permits to Traffic Operations for info dissemination, but when there are no permits, it's not clear what the path for info dissemination is 	

Comment [RDG1]: More of a capacity issue, not TSM&O

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TSM&O Functional Area: Modal Management

Planning	PD&E/Design
<ul style="list-style-type: none"> Facilitate corridor-wide coordination across jurisdictions (statewide freight rail, freeway corridors [I-75]) <ul style="list-style-type: none"> Education is necessary (e.g. upgrades, integration with other systems) Act as liaisons with MPOs; MPOs have dedicated money for congestion management; projects are selected through advisory committees by request <ul style="list-style-type: none"> Annual review process by Polk TPO on prioritizing projects Consideration of operations at MPO level through modeling; enforce model continuity across county lines; moving toward district-wide model Potential gap with shorter range modeling (1-2 years), between project-specific modeling and long-range planning In general, planning defines needs <ul style="list-style-type: none"> For example, BRT: perform feasibility study, make land use recommendations, identify existing issues outside of dept. (e.g. traffic signal coordination) Consult before report publication, vet through appropriate dept. heads, get buy-in from district engineer Similar process for freight mobility studies Some financial consideration in terms of feasibility Identify small safety operational improvements funded through CMAQ <ul style="list-style-type: none"> But level of funding not known without examining work program Have not yet measured impacts 	<ul style="list-style-type: none"> Simply incorporate numbers and information from planning (e.g. in terms of traffic signal timing) Question exists in terms of responsibility over local roads and arterials with respect to traffic from interstates When funding is insufficient for ultimate plan, design less and leave accommodation for expansion

Comment [RDG2]: More of a capacity issue, not TSM&O

District TSM&O Workshops: District 1 Strategies Summary

Traffic Operations	Construction
<ul style="list-style-type: none"> • Examine effect on regular traffic flow and examine effect on signal operation (BRT example) • For commercial vehicle operations: recent problem is parking at rest areas, creates traffic hazard <ul style="list-style-type: none"> ○ Currently studying issue, collecting data ○ Planning to integrate into 511, disseminate info to truckers on available (safe) parking • Act as liaisons providing input on small safety operational improvements funded through CMAQ; involved in related field reviews 	<ul style="list-style-type: none"> • Little direct coordination with planning, design, operations • Follow MOT plans, take advantage of available ITS infrastructure • Provide temporary ITS system when construction interrupts permanent system (responsibility of design and construction, included in specs) • Maintain full actuation of signals through temporary detection • Coordinate closure or rerouting of transit (bus)
Maintenance	
<ul style="list-style-type: none"> • Make recommendations from maintenance perspective (e.g. overweight restrictions) • Provide input on permit issuance for oversize vehicles, coordinate with operations • Work with locals on special events to identify and encourage alternate corridors <ul style="list-style-type: none"> ○ Main goal is to minimize impact, impart understanding of implications • Maintain weigh-in-motion stations through asset management contracts 	

Comment [RDG3]: Are these modal management? Or traffic management?

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TSM&O Functional Area: Traffic Management

Planning	PD&E/Design
<ul style="list-style-type: none"> • No planning involvement in work zone management • Bigger picture involvement: larger reconstruction projects' MOT (can include rail on parallel corridors) • Engaged in very long-range planning for managed lanes, integrated into travel demand model • Using lessons learned from South FL (e.g. no transit on shoulders) in planning for MLs • Feedback acquired through involvement in PD&E • Work with commuter services program on travel demand management (e.g. outreach for carpooling, rideshare) <ul style="list-style-type: none"> ○ Mode split is too small to measure effectiveness 	<ul style="list-style-type: none"> • Coordinate with traffic operations (for example with intersection reconfiguration) • Solicit input from other departments on traffic management strategies for incorporation into consultant contracts, follows standard request and contracting process • Coordinate on public outreach for significant closures (potentially 1 year in advance); provide info to Public Information Office • Review lane closures against policy, perform analysis on a per project basis • Contracts include stipulations to avoid lane closures during specific times (peak, special events, etc.)
Traffic Operations	Construction
<ul style="list-style-type: none"> • Adjust consultant reconstruction contract scopes to include traffic signal timing plans as part of MOT • Provide support for traffic signal timing during repaving projects • Issue: How is it known if signal timing plans during reconstruction or repaving are working as intended (both from perspective of consultant's plan and what the contractor actually implements)? • Documents plans and procedures to facilitate succession 	<ul style="list-style-type: none"> • Field complaints and coordinates response to signal operation MOT plans; provides feedback to consultants • Provide 2-week advance notification on lane closures • Examine alternative contracting methods (incentive/disincentive contracts) to expedite completion by contractors in certain cases (when funding is available) • Coordinate Barrier Island construction season scheduled between Easter and Thanksgiving to accommodate tourists • Does not capitalize on ITS infrastructure in work zones
Maintenance	
<ul style="list-style-type: none"> • Manage Road Ranger service on all interstate corridors • Assist with longer-term MOT through asset management • Some corridors covered through asset maintenance contracts • Consider (occasionally) provision for ability to assist motorists in work zones 	

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TSM&O Functional Area: Other (Electronic Payment/Toll Collection, Public-Private Partnerships)

Planning	PD&E/Design
<ul style="list-style-type: none"> Coordinate ITS architecture through MPOs (e.g. standards adoption) 	<ul style="list-style-type: none"> US 301 – successful P3 project (widening) [Marlon _____ knows the details]
Traffic Operations	Construction
<ul style="list-style-type: none"> Ongoing upgrades to ITS architecture in several counties AVL in buses: data is available 	<ul style="list-style-type: none">
Maintenance	
<ul style="list-style-type: none"> 	

Comment [RDG4]: More of a capacity issue, not TSM&O

District TSM&O Workshops: District 1 Strategies Summary

TSM&O Functional Area: Supporting Programs (Performance Measurement, Data, Collaboration, Systems/Tech)

Planning	PD&E/Design
<ul style="list-style-type: none"> • At policy level, need to develop metric for resource allocation that moves away from LOS (potentially travel times) <ul style="list-style-type: none"> ○ Determine what strategies can improve the metric ○ Would be able to easily examine trade-offs using B/C ratios ○ Would elevate TSM&O strategies within prioritization ranking 	<ul style="list-style-type: none"> •
Traffic Operations	Construction
<ul style="list-style-type: none"> • CDW should be used to supply data to support decision making • Plan to work with local agencies to collect real-time data to improve performance 	<ul style="list-style-type: none"> • Recommendation: Measure travel times along construction project limits before and during work to measure work zone impact <ul style="list-style-type: none"> ○ Could be incorporated into design-build scope but difficult to do otherwise because contractor simply adheres to MOT plan provided by dept. ○ However, could be applied in the case of signal timing maintenance and may lend itself to a pilot project ○ Would need to define purpose of data collection, thresholds for improvement, and improvement actions ○ Would also need to measure a variety of projects before it would be generally applicable to new projects
Maintenance	
<ul style="list-style-type: none"> • TIM teams collecting data on incident duration and response (statewide initiative) • Currently asking TIM teams on how to use the data to make improvements • Need to come to an agreement on measuring secondary incidents 	

Additional Notes

Sec. Hattaway asked about excess delay - how is it calculated and valued?

General observations:

Public Information Office (PIO) is a major stakeholder also

Data Sharing - warehouse is needed at state level to share data between planning and operations

May need more traffic management for special events - currently somewhat ad hoc

Decision Making Process - for selection of projects tends to be based on HCM methods - should be based on network travel time - to best identify which strategy gives the "best bang for the buck"

General Action items:

May be a need to perform more evaluation and feedback to planning and operations

IDEA for pilot project - sensors in work zone to track speeds and better manage work zones - before, during, after

Would like dedicated funding source for arterial operations